

# ALTERNATIVE 3 DETENTION BASIN NEAR OLIVE



## LEGEND

- OPEN SPACE
- TRAILS
- DETENTION BASIN
- BURIED BANK PROTECTION
- x CULVERTS

## ALTERNATIVE 3 DESCRIPTION

This alternative consists of capturing a breakout flow and directing it to a detention basin at Olive Avenue. Alternative 3 also includes native desertscaped trails from the White Tanks Flood Retarding Structure #3 to Olive Avenue and culverts at both Northern and Olive Avenues. The natural wash will remain undisturbed on the west side of the Beardsley Canal between Olive and Northern Avenues.

## VISUAL CHARACTERISTICS

- Ten-acre site containing a curvilinear shaped detention basin with varied perimeter slopes surrounded by a variable width buffer area. Related armored inlet channel and overflow control embankment blended with the surrounding natural desert in terms of color, texture and form.
- Design and grading will attempt to re-naturalize disturbed areas to be reflective of the topography and character of nearby natural washes.
- Designed to provide opportunities for future recreational trail linkages and a potential trailhead area.
- Revegetation and/or restoration will be accomplished using native seed mixes and select tree plantings.
- The native desert palette includes native Sonoran desert plant species patterned and arranged to reflect the density and patterns found in the washes and foothills of the White Tank Mountains.
- Buried embankment protection at the confluence with Cholla Wash and south of Northern Avenue re-naturalized with native seed mixes.

## OPPORTUNITIES

- Provides 100-year flood protection to the properties east of Beardsley Canal by preventing flow breakouts.
- Provides native desertscaped open space corridor including equestrian and pedestrian trails from the White Tanks Flood Retarding Structure #3 to Olive Avenue.
- Provides a 100-year crossing across the wash at both Northern and Olive Avenues.
- No impact on Sonoran Ridge Estates.
- Requires least effort for the maintenance. Creates a desirable open space corridor for Maricopa Water District from Northern Avenue to Olive Avenue.
- Keeps the wash in its natural setting along Sonoran Ridge Estates.
- Creates second lowest construction impact to the neighborhood.
- Least area of natural desert disturbed.
- Second lowest cost.

## CONSTRAINTS

- 21 acres of right-of-way is required through Maricopa Water District and State Land Department.
- Native desertscaped trails on east side of canal from Olive Avenue to Northern Avenue would have to be constructed by others.

## PROJECT COST

\$4 million

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